

# SEQUENCE LISTING

<110> JORDAN, Shaun  
WATANABE, Akihito  
OKUNO, Shiro  
WATANABE, Takeshi

<120> CONGENIC RATS CONTAINING A MUTANT GPR10 GENE

<130> Q69854

<140> US 00/000,000

<141> 2004-02-27

<150> US Prov 60/465,214

<151> 2004-02-27

<160> 20

<170> PatentIn version 3.2

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<212> DNA

<213> Rattus sp.

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<212> DNA

<213> Homo sapiens

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Ser Glu Ser Asn Val Ser Ala Thr Val Pro Arg Ala Ala Ala Val Thr  
 35 40 45

Pro Phe Gln Ser Leu Gln Leu Val His Gln Leu Lys Gly Leu Ile Val  
 50 55 60

Met Leu Tyr Ser Ile Val Val Val Val Gly Leu Val Gly Asn Cys Leu  
 65 70 75 80

Leu Val Leu Val Ile Ala Arg Val Arg Arg Leu His Asn Val Thr Asn  
 85 90 95

Phe Leu Ile Gly Asn Leu Ala Leu Ser Asp Val Leu Met Cys Ala Ala  
 100 105 110

Cys Val Pro Leu Thr Leu Ala Tyr Ala Phe Glu Pro Arg Gly Trp Val  
 115 120 125

Phe Gly Gly Gly Leu Cys His Leu Val Phe Phe Leu Gln Pro Val Thr

130

135

140

Val Tyr Val Ser Val Phe Thr Leu Thr Thr Ile Ala Val Asp Arg Tyr  
 145 150 155 160

Val Val Leu Val His Pro Leu Arg Arg Arg Ile Ser Leu Lys Leu Ser  
 165 170 175

Ala Tyr Ala Val Leu Gly Ile Trp Ala Leu Ser Ala Val Leu Ala Leu  
 180 185 190

Pro Ala Ala Val His Thr Tyr His Val Glu Leu Lys Pro His Asp Val  
 195 200 205

Arg Leu Cys Glu Glu Phe Trp Gly Ser Gln Glu Arg Gln Arg Gln Ile  
 210 215 220

Tyr Ala Trp Gly Leu Leu Leu Gly Thr Tyr Leu Leu Pro Leu Leu Ala  
 225 230 235 240

Ile Leu Leu Ser Tyr Val Arg Val Ser Val Lys Leu Arg Asn Arg Val  
 245 250 255

Val Pro Gly Ser Val Thr Gln Ser Gln Ala Asp Trp Asp Arg Ala Arg  
 260 265 270

Arg Arg Arg Thr Phe Cys Leu Leu Val Val Val Val Val Phe Ala  
 275 280 285

Leu Cys Trp Leu Pro Leu His Ile Phe Asn Leu Leu Arg Asp Leu Asp  
 290 295 300

Pro Arg Ala Ile Asp Pro Tyr Ala Phe Gly Leu Val Gln Leu Leu Cys  
 305 310 315 320

His Trp Leu Ala Met Ser Ser Ala Cys Tyr Asn Pro Phe Ile Tyr Ala  
 325 330 335

Trp Leu His Asp Ser Phe Arg Glu Glu Leu Arg Lys Met Leu Leu Ser  
340 345 350

Trp Pro Arg Lys Ile Val Pro His Gly Gln Asn Met Thr Val Ser Val  
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Val Ile  
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<210> 7  
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<400> 7

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Phe Leu Ile Gly Asn Leu Ala Leu Ser Asp Val Leu Met Cys Ala Ala  
35 40 45

Cys Val Pro Leu Thr Leu Ala Tyr Ala Phe Glu Pro Arg Gly Trp Val  
50 55 60

Phe Gly Gly Gly Leu Cys His Leu Val Phe Phe Leu Gln Pro Val Thr  
65 70 75 80

Val Tyr Val Ser Val Phe Thr Leu Thr Thr Ile Ala Val Asp Arg Tyr  
85 90 95

Val Val Leu Val His Pro Leu Arg Arg Arg Ile Ser Leu Lys Leu Ser  
100 105 110

Ala Tyr Ala Val Leu Gly Ile Trp Ala Leu Ser Ala Val Leu Ala Leu  
115 120 125

Pro Ala Val His Thr Tyr His Val Glu Leu Lys Pro His Asp Val  
 130 135 140

Arg Leu Cys Glu Glu Phe Trp Gly Ser Gln Glu Arg Gln Arg Gln Ile  
 145 150 155 160

Tyr Ala Trp Gly Leu Leu Leu Gly Thr Tyr Leu Leu Pro Leu Leu Ala  
 165 170 175

Ile Leu Leu Ser Tyr Val Arg Val Ser Val Lys Leu Arg Asn Arg Val  
 180 185 190

Val Pro Gly Ser Val Thr Gln Ser Gln Ala Asp Trp Asp Arg Ala Arg  
 195 200 205

Arg Arg Arg Thr Phe Cys Leu Leu Val Val Val Val Val Val Phe Ala  
 210 215 220

Leu Cys Trp Leu Pro Leu His Ile Phe Asn Leu Leu Arg Asp Leu Asp  
 225 230 235 240

Pro Arg Ala Ile Asp Pro Tyr Ala Phe Gly Leu Val Gln Leu Leu Cys  
 245 250 255

His Trp Leu Ala Met Ser Ser Ala Cys Tyr Asn Pro Phe Ile Tyr Ala  
 260 265 270

Trp Leu His Asp Ser Phe Arg Glu Glu Leu Arg Lys Met Leu Leu Ser  
 275 280 285

Trp Pro Arg Lys Ile Val Pro His Gly Gln Asn Met Thr Val Ser Val  
 290 295 300

Val Ile  
 305



<210> 8  
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<400> 8

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20 25 30

Ser Ala Gly Asn Gly Ser Val Ala Gly Ala Asp Ala Pro Ala Val Thr  
35 40 45

Pro Phe Gln Ser Leu Gln Leu Val His Gln Leu Lys Gly Leu Ile Val  
50 55 60

Leu Leu Tyr Ser Val Val Val Val Val Gly Leu Val Gly Asn Cys Leu  
65 70 75 80

Leu Val Leu Val Ile Ala Arg Val Arg Arg Leu His Asn Val Thr Asn  
85 90 95

Phe Leu Ile Gly Asn Leu Ala Leu Ser Asp Val Leu Met Cys Thr Ala  
100 105 110

Cys Val Pro Leu Thr Leu Ala Tyr Ala Phe Glu Pro Arg Gly Trp Val  
115 120 125

Phe Gly Gly Gly Leu Cys His Leu Val Phe Phe Leu Gln Pro Val Thr  
130 135 140

Val Tyr Val Ser Val Phe Thr Leu Thr Thr Ile Ala Val Asp Arg Tyr  
145 150 155 160

Val Val Leu Val His Pro Leu Arg Arg Arg Ile Ser Leu Arg Leu Ser  
165 170 175

Ala Tyr Ala Val Leu Ala Ile Trp Ala Leu Ser Ala Val Leu Ala Leu  
180 185 190

Pro Ala Ala Val His Thr Tyr His Val Glu Leu Lys Pro His Asp Val  
195 200 205

Arg Leu Cys Glu Glu Phe Trp Gly Ser Gln Glu Arg Gln Arg Gln Leu  
210 215 220

Tyr Ala Trp Gly Leu Leu Leu Val Thr Tyr Leu Leu Pro Leu Leu Val  
225 230 235 240

Ile Leu Leu Ser Tyr Val Arg Val Ser Val Lys Leu Arg Asn Arg Val  
245 250 255

Val Pro Gly Cys Val Thr Gln Ser Gln Ala Asp Trp Asp Arg Ala Arg  
260 265 270

Arg Arg Arg Thr Phe Cys Leu Leu Val Val Val Val Val Val Phe Ala  
275 280 285

Val Cys Trp Leu Pro Leu His Val Phe Asn Leu Leu Arg Asp Leu Asp  
290 295 300

Pro His Ala Ile Asp Pro Tyr Ala Phe Gly Leu Val Gln Leu Leu Cys  
305 310 315 320

His Trp Leu Ala Met Ser Ser Ala Cys Tyr Asn Pro Phe Ile Tyr Ala  
325 330 335

Trp Leu His Asp Ser Phe Arg Glu Glu Leu Arg Lys Leu Leu Val Ala  
340 345 350

Trp Pro Arg Lys Ile Ala Pro His Gly Gln Asn Met Thr Val Ser Val  
355 360 365

Val Ile

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<210> 9  
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Met Leu Tyr Ser Val Val Val Val Val Gly Leu Val Gly Asn Cys Leu  
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Leu Val Leu Val Ile Ala Arg Val Arg Arg Leu His Asn Val Thr Asn  
20 25 30

Phe Leu Ile Gly Asn Leu Ala Leu Ser Asp Val Leu Met Cys Thr Ala  
35 40 45

Cys Val Pro Leu Thr Leu Ala Tyr Ala Phe Glu Pro Arg Gly Trp Val  
50 55 60

Phe Gly Gly Gly Leu Cys His Leu Val Phe Phe Leu Gln Pro Val Thr  
65 70 75 80

Val Tyr Val Ser Val Phe Thr Leu Thr Thr Ile Ala Val Asp Arg Tyr  
85 90 95

Val Val Leu Val His Pro Leu Arg Arg Arg Ile Ser Leu Arg Leu Ser  
100 105 110

Ala Tyr Ala Val Leu Ala Ile Trp Ala Leu Ser Ala Val Leu Ala Leu  
115 120 125

Pro Ala Ala Val His Thr Tyr His Val Glu Leu Lys Pro His Asp Val  
130 135 140

Arg Leu Cys Glu Glu Phe Trp Gly Ser Gln Glu Arg Gln Arg Gln Leu  
145 150 155 160

Tyr Ala Trp Gly Leu Leu Leu Val Thr Tyr Leu Leu Pro Leu Leu Val  
165 170 175

Ile Leu Leu Ser Tyr Val Arg Val Ser Val Lys Leu Arg Asn Arg Val  
180 185 190

Val Pro Gly Cys Val Thr Gln Ser Gln Ala Asp Trp Asp Arg Ala Arg  
195 200 205

Arg Arg Arg Thr Phe Cys Leu Leu Val Val Val Val Val Phe Ala  
210 215 220

Val Cys Trp Leu Pro Leu His Val Phe Asn Leu Leu Arg Asp Leu Asp  
225 230 235 240

Pro His Ala Ile Asp Pro Tyr Ala Phe Gly Leu Val Gln Leu Leu Cys  
245 250 255

His Trp Leu Ala Met Ser Ser Ala Cys Tyr Asn Pro Phe Ile Tyr Ala  
260 265 270

Trp Leu His Asp Ser Phe Arg Glu Glu Leu Arg Lys Leu Leu Val Ala  
275 280 285

Trp Pro Arg Lys Ile Ala Pro His Gly Gln Asn Met Thr Val Ser Val  
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Val Ile  
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<210> 10  
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Gly Leu Pro Pro Ala Val Thr Thr Pro Ala Asn Gln Ser Ala Glu Ala  
 20 25 30

Ser Ala Gly Asn Gly Ser Val Ala Gly Ala Asp Ala Pro Ala Val Thr  
 35 40 45

Pro Phe Gln Ser Leu Gln Leu Val His Gln Leu Lys Gly Leu Ile Val  
 50 55 60

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<212> DNA

<213> Homo sapiens

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